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NOTICE OF ALLOWANCE AND FEE(S) DUE

22917

7590

03/07/2008

MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196 EXAMINER

DEAN, RAYMOND S

ART UNIT PAPER NUMBER

2618

DATE MAILED: 03/07/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/654,227	09/03/2003	Philippe J. Sartori	CML00917M	4742

TITLE OF INVENTION: METHOD AND APPARATUS FOR RELAY FACILITATED COMMUNICATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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SCHAUMBURG	G, IL 60196							(Depositor's name)
								(Signature)
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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVEN	MED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/654,227	09/03/2003	DATES FOR DELAME	Philippe J. Sartor		C A TITO N. C.		CML00917M	4742
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0 		\$1740		06/09/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
DEAN, RA		2618	455-007000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a sregistered attorney 2 registered patent	reprinting on the patent front page, list the names of up to 3 registered patent attorneys ents OR, alternatively, the name of a single firm (having as a member a ered attorney or agent) and the names of up to istered patent attorneys or agents. If no name is a no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pa g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	TRY)	cument has been filed for
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	tus (from status indicated as SMALL ENTITY statu	,	☐ b. Applicant is no	long	er claiming SMAL	L ENT	ГІТҮ status. See 37 CF	R 1.27(g)(2).
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22917 7:	590 03/07/2008		EXAM	INER
MOTOROLA, II	NC.	DEAN, RA	YMOND S	
1303 EAST ALGO	ONQUIN ROAD	ART UNIT	PAPER NUMBER	
IL01/3RD SCHAUMBURG,	IL 60196		2618 DATE MAILED: 03/07/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/654,227	SARTORI ET AL.
Notice of Allowability	Examiner	Art Unit
	RAYMOND S. DEAN	2618
	RATINOND S. DEAN	2010
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>December 5, 2007</u> .		
2. \boxtimes The allowed claim(s) is/are $\underline{1-10,12-14,17-22,25,28-34,35}$	<u>-48</u> .	
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:		
 Certified copies of the priority documents have 	e been received.	
2. Certified copies of the priority documents have	been received in Application No	
Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.	
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 Notice of Informal C	Octont Application
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal F 6. ☐ Interview Summary 	
2. Notice of Dransperson's Patent Drawing Review (P10-346)	Paper No./Mail Da	te
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr	ment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
····· V ·······················	9.	

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Steven May (Reg. No. 44,912) on February 15, 2008.

Regarding Claim 48

Please insert the phrase "comprising: a resource allocator" in between the word "base site" and the word "that" in line 2.

Please replace the word "a" with the word "the" in between the word "from" and the word "transmitter" in line 3.

Please replace the word "that" with the phrase ", wherein the transmitter in between the word "transmitter" and the word "is" in line 3.

Please insert the word "and" in between the comma "," and "automatically" in line 4.

Please replace the word "a" with the word "the" in between the word "allocate" and the word "wireless" in line 4.

Please replace the comma "," with the phrase "; and" after the word "resource" in line 7.

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Please insert the phrase "a relay resource activator that is configured to" in front of the word "provide" in line 8.

Please insert the word "and" in between the comma "," and the word "wherein" in line 12.

Delete the word "and" in line 13.

Please remove lines 14 - 16 from the bottom of Claim 48 and insert lines 14 - 16 after "comprising:" in line 1. The limitations in lines 14 – 16 will now be the first set of limitations in Claim 48.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or show the combining received portions of relayed transmissions from at least one wireless relay resource with portions redundant transmissions from the transmitter to reconstruct the transmission.

The prior art of record fails to teach or show this redundant feature, which is prevalent in HARQ and ARQ schemes, in the repeater or relay field of endeavor. The prior art of record fails to teach or show a wireless relay resource configured to combine received portions of relayed transmissions from the transmitter using hybrid automatic repeat request (HARQ) to reconstruct the transmission. The prior art of record also fails to teach or show a wireless relay resource that will: determine whether the transmission has been likely correctly received; when the transmission is determined to have been likely correctly received, re-encode the

decoded information to provide re-encoded information; and transmit the reencoded information to the base site: and not transmit to the base site any
relayed transmissions that are determined to not have been likely correctly
received. Claim 1, including all claims that depend directly or indirectly from Claim 1,
Claim 20, including all claims that depend directly or indirectly from Claim 20, Claim 34,
including all claims that depend directly or indirectly from Claim 34, Claim 41, including
all claims that depend directly or indirectly from Claim 41, and Claim 48 are therefore
allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond S. Dean whose telephone number is 571-272-7877. The examiner can normally be reached on Monday-Friday 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raymond S Dean/
Primary Examiner, Art Unit 2618
/Edward Urban/
Supervisory Patent Examiner, Art Unit 2618

Raymond S. Dean February 19, 2008